Alexander E. Andreev et al. Page 1 of 5 EV178016261US 03-0934/L13.12-0244 UNIVERSAL GATES FOR ICS AND TRANSFORMATION OF NETLISTS FOR THEIR IMPLEMENTATION

a b	z
0 0	1
0 1	1
1 0	1
1 1	0

Truth Table

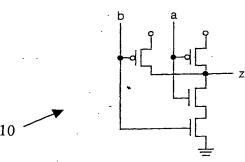


FIG. 1

a b	z
0 0	1
0 1	0
1 0	0
1 1	0

Truth Table

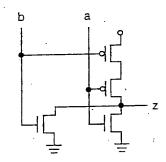


FIG. 2

a	z
0 1	1 0

Truth table

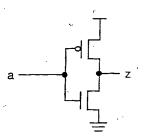
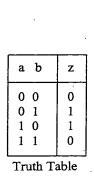


FIG. 3



Alexander E. Andreev et al. Page 2 of 5 EV178016261US 03-0934/L13.12-0244 UNIVERSAL GATES FOR ICS AND TRANSFORMATION OF NETLISTS FOR THEIR IMPLEMENTATION



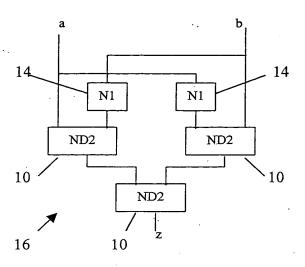
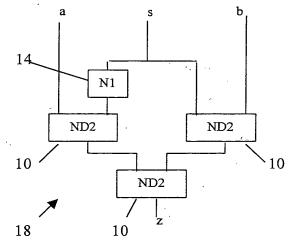
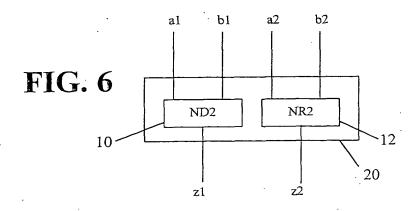


FIG. 4

a b	s	z
0 0	0	0.
0 0	1	0
0 1	0	0
0 1	1	1
1 0	0	1
1 0	1	0
1 1	0	1
1 1	1	1
1 1		1



**FIG. 5** 



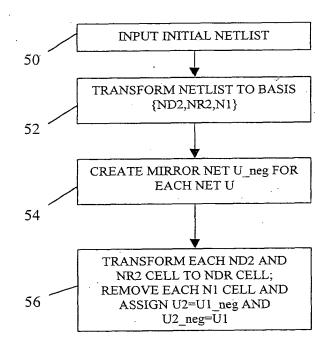
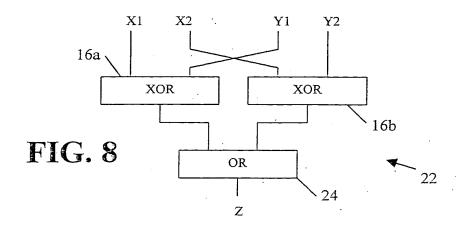
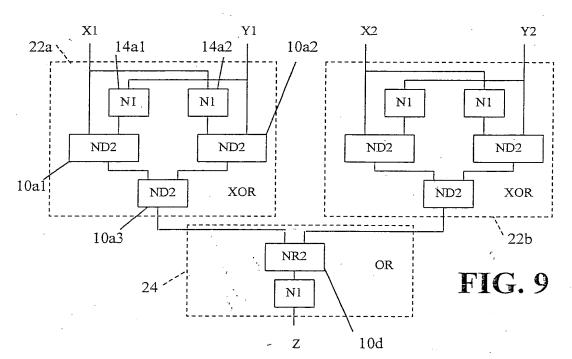


FIG. 7





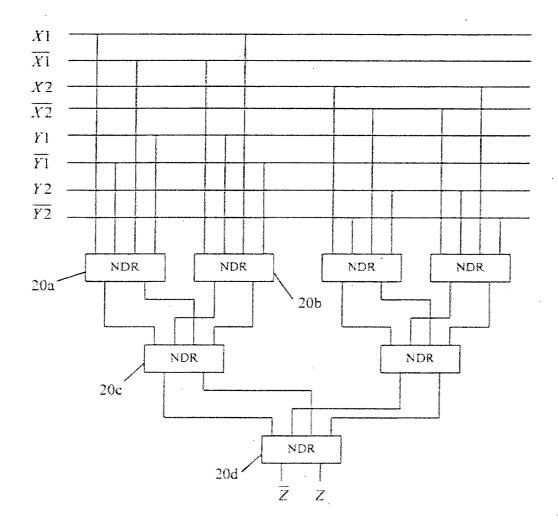


FIG. 10